

Approved For Release 2000/06/30 : CIA-RDP78B04560A004800010032-1  
25X1C [REDACTED]

PHOTOGRAPHIC INTERPRETATION REPORT



NOVEMBER SUMMARY REPORT

SELECTED TARGETS  
NORTH VIETNAM AND LAOS

NPIC/R-344/65  
DECEMBER 1965

GROUP 1 EXCLUDED FROM  
AUTOMATIC DOWNGRADING  
AND DECLASSIFICATION

25X1C [REDACTED]  
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## PREFACE

This report provides a summary of photographic interpretation of selected COMOR targets and other targets in North Vietnam and Laos considered significant by the National Photographic Interpretation Center (NPIC).

Each installation report includes target name, geographic coordinates, WAC number, BE number (as appropriate), and NPIC number followed by the locator line, COMOR target number (as appropriate), and summary description suitable for the most recent mission included.

The date, mission number, photo reference data, and limiting conditions are given for each mission with OB information (as appropriate) listed directly above.

Only AAA defenses considered to be integral components of an installation are reported. They are divided

into three basic categories: light (ZPU-1, ZPU-2, ZPU-4, 37mm), medium (57mm, 85mm), and heavy (100mm and larger). The term HMGAA (heavy machine gun anti-aircraft) indicates a weapon smaller than a ZPU-1. When a category cannot be determined, the site is listed as an AAA site and the number of guns indicated (Ex.: 6-gun AAA site, occupied/unoccupied).

Targets are arranged 1) by country, 2) within the country by subject, 3) within the subject by WAC number, and 4) within the WAC number by geographic coordinates in ascending order.

An appendix explaining column headings, photo reference data, COMOR target numbers, and abbreviations for limiting conditions concludes the report.

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[REDACTED]

Target	Coordinates	WAC	Target Numbers	
			BE	NPIC
<p>-LAOS-</p> <p>MILITARY INSTALLATIONS</p> <p>MUONG LUONG NAM THA MILITARY CAMPS</p> <p>TWO MILITARY CAMPS, REFERENCED FROM MUONG LUONG NAM THA, WERE SUBJECTED TO AIR STRIKE.</p> <p>COMOR [REDACTED]</p> <p>CAMP A (IMMEDIATELY SE AT UTM QD502197) -- ABANDONED WALLED CAMP CONTAINS 1 LARGE STORAGE BUILDING. NUMEROUS TRENCH SYSTEMS AND AW POSITIONS OBSERVED IN IMMEDIATE AREA.</p> <p>CAMP B (IMMEDIATELY NNW AT UTM QD509179) -- CAMP CONTAINS 1 BARRACKS-TYPE, 1 ADMINISTRATION-TYPE, AND 2 SUPPORT BUILDINGS. APPROXIMATELY 8 AW POSITIONS OBSERVED WITHIN AREA. AREA APPEARS ABANDONED.</p> <p>[REDACTED]</p>	2057N 10128E	0616		121-A
<p>-NORTH VIETNAM-</p> <p>MISSILES</p> <p>THANH HOA SAM SITE B01-2</p> <p>19.5 NM NNE OF THANH HOA AT UTM WH875230.</p> <p>COMOR [REDACTED]</p> <p>SITE CONTAINS 6 REVETTED LAUNCH POSITIONS, A REVETTED CENTRAL GUIDANCE AREA, AND 2 REVETTED MISSILE-HOLD POSITIONS.</p> <p>OB -- NONE OBSERVED.</p> <p>[REDACTED]</p>	2006N 10550E	0616	25X1A	518

25X1A

25X1D

25X1D

25X1A

25X1D

25X1C

	Target	Coordinates	AAC	Target Numbers	
				BE	NPIC
25X1A	THANH HOA SAM SITE B02-2 19.5 NM NNE OF THANH HOA AT UTM WH885230. COMOR [REDACTED] SITE CONTAINS 6 REVETTED LAUNCH POSITIONS, A REVETTED CENTRAL GUIDANCE AREA, AND 1 PROBABLE MISSILE-HOLD POSITION. CB -- NONE OBSERVED. [REDACTED]	2006N 10550E	0616	25X1A [REDACTED]	518-A
25X1D	[REDACTED]				
25X1D	THANH HOA SAM SITE C03-2 27.6 NM NE OF THANH HOA AT UTM XH039366. COMOR [REDACTED] SITE CONSISTS OF 6 REVETTED LAUNCH POSITIONS, A REVETTED CENTRAL GUIDANCE AREA, AND 3 REVETTED MISSILE-HOLD POSITIONS. CB -- NONE OBSERVED. [REDACTED]	2013N 10559E	0616	[REDACTED]	231-F
25X1A	[REDACTED]				
25X1D	[REDACTED]				
25X1A	HANOI SAM SITE D19-2 37 NM SSW OF HANOI AT UTM WH818553. COMOR [REDACTED] SITE CONTAINS 6 REVETTED LAUNCH POSITIONS AND A REVETTED CENTRAL GUIDANCE AREA. CB -- NONE OBSERVED. [REDACTED]	2023N 10547E	0616	[REDACTED]	353-A
25X1D	[REDACTED]				
25X1A	HANOI SAM SITE C18-2 29.3 NM SSW OF HANOI AT UTM WH951711. COMOR [REDACTED] SITE CONTAINS 6 PARTIALLY REVETTED LAUNCH POSITIONS AND A CAMOUFLAGED OCCUPIED CENTRAL GUIDANCE AREA. CB -- 6 MISSILES AND 6 CANVAS-COVERED MISSILE	2032N 10554E	0616	[REDACTED]	392-A

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	Target	Coordinates	WAC	Target Numbers	
				BE	NPIC
25X1D	TRANSPORTERS. [REDACTED]				
25X1D	OB -- NONE OBSERVED. [REDACTED]			25X1A	
	HANOI SAM SUPPORT FACILITY 22.5 NM SW OF HANOI AT UTM WH680942. PARTIALLY CAMOUFLAGED FACILITY CONTAINS 6 SMALL DRIVE-THROUGH BUILDINGS, 3 TURN-AROUND LOOP ROADS WITH ADJACENT BUILDINGS, 1 BUNKERED BUILDING, AT LEAST 15 OTHER BUILDINGS, AND NUMEROUS WIDE RADIUS TURN ROADS. OB -- NONE OBSERVED. [REDACTED]	2044N 10539E	0616	[REDACTED]	269-A
25X1A	HANOI SAM SITE B17-2 15 NM SSE OF HANOI AT UTM WH948982. COMOR [REDACTED] SITE CONSISTS OF 6 LAUNCH POSITIONS, A RENETTED CENTRAL GUIDANCE AREA, AND 3 RENETTED MISSILE-HOLD POSITIONS. OB -- NONE OBSERVED. [REDACTED]	2047N 10554E	0616	[REDACTED]	114-G
25X1A	HANOI SAM SITE B21-2 11 NM SW OF HANOI AT UTM WJ786072. COMOR [REDACTED] SA-2 SITE CONSISTS OF 6 RENETTED LAUNCH POSITIONS, A RENETTED CENTRAL GUIDANCE AREA, AND 3 RENETTED MISSILE-HOLD POSITIONS. OB -- NONE OBSERVED.	2051N 10545E	0616	[REDACTED]	114-H

	Target	Coordinates	WAC	Collet Number	
				BE	NPC
25X1D	[REDACTED]				
	HANOI SAM SITE A17-2 9.5 NM SSE OF HANOI RR YARD AT UTM WJ945081. COMOR [REDACTED] SITE CONSISTS OF 6 LAUNCH POSITIONS, A CENTRAL GUIDANCE AREA, AND AT LEAST 1 MISSILE-HOLD POSITION IN A POSSIBLE LINK CONFIGURATION. OB -- NONE OBSERVED.	2052N 10554E	0616	25X1A	266-D
25X1A	[REDACTED]				
25X1D	[REDACTED]				
	HANOI SAM SITE A17A-2 9.4 NM SSE OF HANOI AT UTM WJ943087. COMOR [REDACTED] SITE CONSISTS OF 6 LAUNCH POSITIONS, A CENTRAL GUIDANCE AREA, AND 1 PROBABLY REVETTED MISSILE-HOLD POSITION. OB -- NONE OBSERVED.	2052N 10554E	0616		266-G
25X1A	[REDACTED]				
25X1D	[REDACTED]				
	HANOI SAM SITE B25-2 14.5 NM SW OF HANOI AT UTM WJ641127. COMOR [REDACTED] SITE CONSISTS OF 6 PARTIALLY REVETTED LAUNCH POSITIONS, A PARTIALLY REVETTED CENTRAL GUIDANCE AREA, 1 MISSILE-HOLD POSITION, AND 2 PROBABLE MISSILE-HOLD POSITIONS. OB -- NONE OBSERVED.	2054N 10536E	0616		266-E
25X1A	[REDACTED]				
25X1D	[REDACTED]				
	HANOI SAM SITE A19-2 6.6 NM SOUTH OF HANOI AT UTM WJ880140. COMOR [REDACTED] SITE CONSISTS OF 6 REVETTED LAUNCH POSITIONS	2055N 10550E	0616		266-F
25X1A	[REDACTED]				

25X1C

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	Target	Coordinates	WAC	Target Numbers	
				BE	NPIC
25X1D	AND A POSSIBLY REVETTED UNOCCUPIED GUIDANCE AREA. CB -- 6 LAUNCHERS AND 1 POSSIBLE MISSILE TRANSPORTER. [REDACTED]			25X1A	
25X1A	THANH HOA SAM SITE D04-2 33 NM NNE OF THANH HOA AT UTM XJ153426. COMOR [REDACTED] SITE CONSISTS OF 6 REVETTED LAUNCH POSITIONS, A REVETTED CENTRAL GUIDANCE AREA, AND 3 REVETTED HOLD POSITIONS. OB -- 5 OCCUPIED LAUNCH POSITIONS AND AN OCCUPIED CENTRAL GUIDANCE AREA.	2016N 10606E	0616	[REDACTED]	390-A
25X1D	[REDACTED] OB -- 2 LAUNCHERS PROBABLY DESTROYED, 2 LAUNCHERS PROBABLY DAMAGED, A PROBABLY DAMAGED VAN, AND 1 MISSILE IN HOLD POSITION. ACTIVITY -- 4 PIECES OF UNIDENTIFIED EQUIPMENT ALONG HIGHWAY.			[REDACTED]	
25X1D	[REDACTED] HAIPHONG SAM SITE A29-2 7 NM WEST OF HAIPHONG AT UTM XJ631092. COMOR [REDACTED] SITE CONTAINS 6 REVETTED LAUNCH POSITIONS, A REVETTED CENTRAL GUIDANCE AREA, AND 3 MISSILE-HOLD POSITIONS. OB -- NONE OBSERVED.	2052N 10634E	0616	[REDACTED]	109-S
25X1A	[REDACTED] HAIPHONG SAM SITE B29-2 17.8 NM WNW OF HAIPHONG AT UTM XJ433143. COMOR [REDACTED]	2055N 10622E	0616	[REDACTED]	310-D



25X1C

	Target	Coordinates	MAC	Target Identifiers	
				BE	NPIC
	SITE CONSISTS OF 6 REVETTED LAUNCH POSITIONS AND A REVETTED CENTRAL GUIDANCE AREA IN A LINK CONFIGURATION. OB -- NONE OBSERVED.				
25X1D	[REDACTED]			25X1A	
	HAIPHONG SAM SITE B06A-2 10.1 NM NE OF HAIPHONG AT UTM XJ913170. COMOR [REDACTED]	2056N 10650E	0616	[REDACTED]	249-B
25X1A	SITE CONSISTS OF 4 PARTIALLY REVETTED LAUNCH POSITIONS, A REVETTED CENTRAL GUIDANCE AREA, AND 1 POSSIBLE MISSILE-HOLD POSITION. OB -- NONE OBSERVED.				
25X1D	[REDACTED]				
	HAIPHONG SAM SITE B06-2 11.7 NM NE OF HAIPHONG AT UTM XJ930193. COMOR [REDACTED]	2058N 10651E	0616	[REDACTED]	249-A
25X1A	SITE CONSISTS OF 5 REVETTED LAUNCH POSITIONS AND A REVETTED CENTRAL GUIDANCE AREA. OB -- NONE OBSERVED.				
25X1D	[REDACTED]				
	YEN BAI SAM SITE A31-2 2.2 NM NW OF YEN BAI AT UTM VK847017. COMOR [REDACTED]	2143N 10451E	0616	[REDACTED]	147-C
25X1A	SITE APPEARS DETERIORATED AND ABANDONED. OB -- NONE OBSERVED.				
25X1D	[REDACTED]				
	HANOI SAM SITE A29-2 10 NM WNW OF HANOI AT UTM WJ709302. COMOR [REDACTED]	2104N 10541E	0616	[REDACTED]	462-J
25X1A					

	Target	Coordinates	WAC	Target Numbers	
				BE	NPIC
25X1D	SITE CONSISTS OF 6 REVETTED LAUNCH POSITIONS, A REVETTED CENTRAL GUIDANCE AREA, 3 MISSILE-HOLD POSITIONS, AND A ROAD LEADING TO PROBABLE ACQUISITION REVETMENT. SITE IS OF A LINK CONFIGURATION. OB -- NONE OBSERVED.				
25X1A	HANOI SAM SITE C28-2 20.5 NM WNW OF HANOI AT UTM WJ508319. COMOR	2105N 10529E	0616	25X1A	114-J
25X1D	SITE CONSISTS OF 6 REVETTED LAUNCH POSITIONS, A REVETTED CENTRAL GUIDANCE AREA, 2 REVETTED MISSILE-HOLD POSITIONS, AND 1 PROBABLE MISSILE-HOLD POSITION. OB -- NONE OBSERVED.				
25X1A	HANOI SAM SITE B30-2 12 NM WNW OF HANOI AT UTM WJ678347. COMOR	2106N 10539E	0616		462-L
25X1D	SITE CONTAINS 6 REVETTED LAUNCH POSITIONS, A CENTRAL GUIDANCE AREA, AND 2 MISSILE-HOLD POSITIONS IN A STAR CONFIGURATION. OB -- NONE OBSERVED.				
25X1A	HANOI SAM SITE B30A-2 16.5 NM NW OF HANOI AT UTM WJ616376. COMOR	2108N 10535E	0616		248-B
25X1D	SITE CONSISTS OF 6 REVETTED LAUNCH POSITIONS AND A REVETTED CENTRAL GUIDANCE AREA. OB -- NONE OBSERVED.				

25X1C

[REDACTED]

25X1A

HANOI SAM SITE C29-2  
28 NM WNW OF HANOI AND 0.8 NM NW OF CAM DAI  
ARMY BARRACKS AT UTM WJ387414.  
COMOR [REDACTED]  
SA-2 SITE CONSISTS OF 6 REVETTED LAUNCH  
POSITIONS AND A REVETTED CENTRAL GUIDANCE  
AREA.  
CB -- NONE OBSERVED.

2110N 10522E

0616

200-B

[REDACTED]

HANOI SAM SITE C30B-2  
25.2 NM WNW OF HANOI AT UTM WJ454423.  
CCMR [REDACTED]  
SITE CONSISTS OF 6 REVETTED LAUNCH POSITIONS  
AND A REVETTED CENTRAL GUIDANCE AREA IN A FAN  
CONFIGURATION.  
CB -- NONE OBSERVED.

2111N 10520E

0616

200-D

HANOI SAM SITE C30A-2  
29 NM WNW OF HANOI AT UTM WJ379454.  
CCMR [REDACTED]  
SITE CONSISTS OF 6 REVETTED LAUNCH POSITIONS,  
A REVETTED CENTRAL GUIDANCE AREA, AND 2  
PROBABLE MISSILE-HOLD POSITIONS.  
CB -- NONE OBSERVED.

2112N 10521E

2616

385 A

CB -- 6 LAUNCHERS WITH MISSILES, 5 MISSILE  
TRANSPORTERS (3 WITH PROBABLE MISSILES), AND 1

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[REDACTED]

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25X1C

	Target	Coordinates	WAC	Target Numbers	
				BE	NPIC
25X1D	PROBABLE FAN SONG RADAR. [REDACTED]				
25X1D	OB -- NONE OBSERVED. [REDACTED]				
25X1A	HANOI SAM SITE C30-2 30 NM WNW OF HANOI AT UTM WJ374461 JUST SOUTH OF PHU NHIEU BARRACKS AND STORAGE. COMOR [REDACTED] SITE CONSISTS OF 6 REVETTED LAUNCH POSITIONS AND A REVETTED CENTRAL GUIDANCE AREA. CABLE TRENCHES EXTEND OUTWARD FROM THE CENTRAL GUIDANCE AREA TO EACH LAUNCH POSITION. OB -- NONE OBSERVED. [REDACTED]	2113N 10521E	0616	25X1A	200-C
25X1D	[REDACTED]				
25X1A	HANOI SAM SITE D31-2 33.5 NM NW OF HANOI AT UTM WJ381611. COMOR [REDACTED] SA-2 SITE CONTAINS 6 REVETTED LAUNCH POSITIONS, A CENTRAL GUIDANCE AREA, AND 3 PARTIALLY REVETTED MISSILE-HOLD POSITIONS. CONFIGURATION IS IRREGULAR. OB -- NONE OBSERVED. [REDACTED]	2121N 10522E	0616		378-A
25X1D	[REDACTED]				

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25X1C

Target	Coordinates	WAC	Target Numbers	
			BE	NPIC
<p>ST</p> <p>HANOI SAM SITE D31B-2</p> <p>36.6 NM NW OF HANOI AT UTM WJ346662.</p> <p>COMOR [REDACTED]</p> <p>SA-2 SITE CONTAINS 6 REVETTED LAUNCH POSITIONS, A REVETTED CENTRAL GUIDANCE AREA, AND 3 REVETTED MISSILE-HOLD POSITIONS.</p> <p>OB -- NONE OBSERVED.</p> <p>[REDACTED]</p>	2123N 10520E	0616	25X1A	378-C
<p>HANOI SAM SITE D31A-2</p> <p>38.7 NM NW OF HANOI AT UTM WJ297664.</p> <p>COMOR [REDACTED]</p> <p>SITE CONTAINS 5 REVETTED LAUNCH POSITIONS AND AN UNRETTED CENTRAL GUIDANCE AREA.</p> <p>OB -- NONE OBSERVED.</p> <p>[REDACTED]</p>	2124N 10517E	0616		378-B
<p>HANOI SAM SITE C30C-2</p> <p>29 NM WNW OF HANOI AT UTM WJ406490.</p>	2114N 10523E	0616		200-E

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	Target	Coordinates	WAC	Target Numbers	
				BE	NPIC
25X1A	COMOR [REDACTED] SITE CONSISTS OF 5 PARTIALLY REVETTED LAUNCH POSITIONS IN VARIOUS STAGES OF CONSTRUCTION AND A CENTRAL GUIDANCE AREA IN EARLY STAGE OF CONSTRUCTION. OB -- NONE OBSERVED.				
25X1D	[REDACTED]			25X1A	
25X1A	HANOI SAM SITE C07-2 33 NM NNE OF HANOI AT UTM XJ368532. COMOR [REDACTED] SA-2 SITE CONTAINS 6 REVETTED LAUNCH POSITIONS, A REVETTED CENTRAL GUIDANCE AREA, AND 2 MISSILE-HOLD POSITIONS IN AN IRREGULAR PATTERN. OB -- NONE OBSERVED.	2116N 10619E	0616	[REDACTED]	238-G
25X1D	[REDACTED]				
25X1A	HANOI SAM SITE C06-2 29 NM NNE OF HANOI AT UTM XJ301579. COMOR [REDACTED] SA-2 SITE CONSISTS OF 6 REVETTED LAUNCH POSITIONS AND AN UNRETTED CENTRAL GUIDANCE POSITION. OB -- NONE OBSERVED.	2119N 10615E	0616	[REDACTED]	238-H
25X1D	[REDACTED]				
25X1A	HANOI SAM SITE E07-2 46.5 NM NE OF HANOI AT UTM XJ657642. COMOR [REDACTED] SA-2 SITE CONSISTS OF 6 REVETTED LAUNCH POSITIONS, A REVETTED CENTRAL GUIDANCE POSITION, AND 2 MISSILE-HOLD POSITIONS IN A CIRCULAR PATTERN.	2122N 10635E	0616	[REDACTED]	397-D

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Target	Coordinates	WAC	Target Numbers	
			BE	NPIC
<p>OB -- NONE OBSERVED.</p> <p>25X1D [REDACTED]</p> <p>HANOI SAM SITE D04-2</p> <p>31.4 NM NE OF HANOI AT UTM XJ256704.</p> <p>25X1A COMOR [REDACTED]</p> <p>SA-2 SITE CONSISTS OF 5 REVETTED LAUNCH POSITIONS AND A REVETTED CENTRAL GUIDANCE AREA.</p> <p>OB -- 5 LAUNCHERS WITH MISSILES (1 CAMOUFLAGED) AND 3 MISSILE TRANSPORTERS. ACTIVITY -- 9 PIECES OF UNIDENTIFIED EQUIPMENT.</p> <p>25X1D [REDACTED]</p> <p>OB -- NONE OBSERVED.</p> <p>25X1D [REDACTED]</p> <p>HANOI SAM SITE D03-2</p> <p>30.7 NM NNE OF HANOI AT UTM XJ164752.</p> <p>25X1A COMOR [REDACTED]</p> <p>SA-2 SITE CONSISTS OF 5 REVETTED LAUNCH POSITIONS AND A REVETTED CENTRAL GUIDANCE AREA.</p> <p>OB -- 5 OCCUPIED LAUNCH POSITIONS AND AN OCCUPIED CENTRAL GUIDANCE AREA.</p> <p>25X1D [REDACTED]</p> <p>THANH HOA SAM SITE B28-2</p> <p>11 NM WNW OF THANH HOA AT UTM WG615924.</p> <p>25X1A COMOR [REDACTED]</p> <p>SITE CONTAINS 6 REVETTED LAUNCH POSITIONS, A CENTRAL GUIDANCE AREA, AND 2 REVETTED MISSILE-HOLD POSITIONS. TWO BOMB CRATERS OBSERVED ADJACENT TO SITE.</p>	<p>2125N 10612E</p> <p>2128N 10607E</p> <p>1949N 10535E</p>	<p>0616</p> <p>0616</p> <p>0617</p>	<p>25X1A</p> <p>[REDACTED]</p>	<p>211-C</p> <p>211-D</p> <p>126-P</p>

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25X1C

	Target	Coordinates	WAC	Target Numbers	
				BE	NPIC
25X1D	GB -- NONE OBSERVED. [REDACTED]			25X1A	
25X1A	THANH HOA SAM SITE A04-2 7.6 NM NE OF THANH HOA AT UTM WH896021. COMOR [REDACTED] SITE CONSISTS OF 6 REVETTED LAUNCH POSITIONS AND A REVETTED CENTRAL GUIDANCE AREA. GB -- NONE OBSERVED. [REDACTED]	1955N 10551E	0617	[REDACTED]	502-A
25X1D	AIR INSTALLATIONS				
25X1A	DIEN BIEN PHU AIRFIELD 0.5 NM NORTH OF DIEN BIEN PHU. COMOR [REDACTED] APPROXIMATELY 4,000 X 90 FT NNW/SSE ASPHALT AND LATERITE RUNWAY, HEAVILY DAMAGED AND UNSERVICEABLE. APPROXIMATELY 40 CRATERS OBSERVED INTERDICTING RUNWAY. FACILITIES ARE 90 PERCENT DESTROYED. GB -- NONE OBSERVED. [REDACTED]	2123N 10301E	0616	[REDACTED]	105
25X1D	[REDACTED]				
25X1A	HANOI/BAC MAT AIRFIELD 2.1 NM SSW OF HANOI CLASSIFICATION YARD. COMOR [REDACTED] 4,100 X 110 FT NW/SE CONCRETE AND ASPHALT RUNWAY, SERVICEABLE. FACILITIES INCLUDE 1 LARGE AND 3 MEDIUM HANGARS, 1 LARGE HANGAR APRON, 1 PARKING APRON, A PARALLEL NATURAL SURFACE TAXIWAY	2100N 10550E	0616	[REDACTED]	112-E

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Target	Coordinates	WAC	Target Numbers	
			BE	NPIC
<p>WITH 3 CROSSOVER LINKS, AND A LOOP TAXIWAY CONNECTING THE AIRFIELD WITH THE HANGAR AND PARKING APRONS. SUPPORT FACILITIES INCLUDE A BARRACKS AREA, AN ADMINISTRATION AREA, AND A PERSONNEL HOUSING AREA. A FORMER AIRCRAFT DISPERSAL AREA, JUST WEST OF THE NW END OF THE RUNWAY, HAS BEEN CONVERTED TO A MILITARY-TYPE INSTALLATION. THE 23 FORMER AIRCRAFT REVETMENTS CONTAIN BUILDINGS AND SHEDS. OB -- NONE OBSERVED. ACTIVITY -- AT LEAST 30 UNIDENTIFIED PIECES OF EQUIPMENT SCATTERED ALONG BOTH SIDES OF RUNWAY.</p> <p>25X1D [REDACTED]</p> <p>HANOI/GIA LAM AIRFIELD 2.3 NM NE OF HANOI. COMOR [REDACTED]</p> <p>25X1A 6,100 X 100 FT NNE/SSW CONCRETE RUNWAY, SERVICEABLE, AND 5,800 X 320 FT NW/SE CONCRETE RUNWAY USED AS PARKING AREA. FACILITIES INCLUDE 1 HANGAR, NUMEROUS SUPPORT BUILDINGS, A WEATHER STATION, A POL STORAGE AREA ON NW END OF NW/SE RUNWAY, AND 16 AIRCRAFT REVETMENTS WITH EXHAUST VENTS/ PERSONNEL EXIT SLITS. RUNWAY IS BEING EXTENDED APPROXIMATELY 650 FT AT NNE END WITH GRADING ACTIVITY EXTENDING APPROXIMATELY 1,200 FT BEYOND THE RUNWAY EXTENSION. OB -- NONE OBSERVED.</p> <p>25X1D [REDACTED]</p> <p>PHUC YEN AIRFIELD 5.8 NM ESE OF PHUC YEN AT UTM WJ840464.</p>	<p>2102N 10553E</p> <p>2113N 10548E</p>	<p>0616</p> <p>0616</p>	<p>25X1A</p> <p>[REDACTED]</p>	<p>114</p> <p>326-C</p>

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25X1C

25X1A

25X1D

Target	Coordinates	WAC	Target Numbers	
			BE	NPIC
<p>COMOR [REDACTED]</p> <p>8,720 X 190 FT ESE/WWN CONCRETE RUNWAY, SERVICEABLE, WITH 1,200 FT OVERRUN AT EACH END.</p> <p>FACILITIES INCLUDE PARALLEL LOOP TAXIWAY WITH 2 END-CONNECTING LINKS, 3 CROSSOVER LINKS, ALERT RAMPS ALONG EACH OF 2 OUTER CROSSOVER LINKS, TWO 1,600-FT PARKING APRONS, GCA FACILITIES, ILS SITES, AND MARKER BEACONS. HOUSING/SUPPORT AREA IMMEDIATELY NORTH OF AIRFIELD CONTAINS APPROXIMATELY 50 BARRACKS, 100 STORAGE/SUPPORT BUILDINGS, A CONTROL TOWER, AND AN OPERATIONS BUILDING. AIRCRAFT REVETMENT AREA AT ESE END OF RUNWAY CONTAINS 8 REVETMENTS AND AREA AT WWN END CONTAINS 5 REVETMENTS. APPROXIMATELY 11,000-FT TAXIWAY UNDER CONSTRUCTION LEADS NORTH FROM RUNWAY TO NEW DISPERSAL AREA CONTAINING 23 AIRCRAFT REVETMENTS (6 UNDER CONSTRUCTION). A FIRING-IN BUTT IS NEARING COMPLETION. SECURED POL STORAGE AREA, APPROXIMATELY 5,000 FT NNW OF RUNWAY CENTER, WITH LOOP SERVICE ROAD CONTAINS 6 BURIED POL TANKS. AIRFIELD IS RAIL-SERVED. OB -- 6 PROBABLE BEAGLE, 22 PROBABLE FAGOT/FRESCO, AND 2 SMALL UNIDENTIFIED AIRCRAFT. ACTIVITY -- WITHIN 3 NM OF RUNWAY CENTER, 10 AAA SITES, 7 OCCUPIED. FIVE RAIL CARS OBSERVED ON RAIL SPUR.</p> <p>[REDACTED]</p> <p>PHU THO AIRFIELD 0.4 NM SW OF PHU THO. 4,600 X 170 FT E/W GRADED EARTH RUNWAY</p>			25X1A	135-C
	2123N 10512E	0616		

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25X1C

Target	Coordinates	WAC	Target Numbers	
			BE	NPIC
<p>UNDERGOING RESURFACING, UNSERVICEABLE. APPROXIMATELY 2,300 FEET HAVE BEEN REGRADED AND AGGREGATE IS BEING SCRAPED ONTO THE REMAINING 2,300 FEET. TWO AIRCRAFT REVETMENTS HAVE BEEN CONSTRUCTED SOUTH OF THE RUNWAY.</p> <p>OB -- NONE OBSERVED.</p> <p>[REDACTED]</p>	2124N 10616E	0616		
<p>25X1D [REDACTED]</p>				
<p>25X1A KEP AIRFIELD 1 NM SW OF KEP AT UTM XJ317663. COMOR [REDACTED] 5,975 X 155 FT NE/SW CONCRETE RUNWAY, SERVICEABLE, WITH GRADED EARTH OVERRUN AT EACH END. FACILITIES INCLUDE A CONTROL TOWER/OPERATIONS BUILDING, 5 BARRACKS/STORAGE BUILDINGS, 9 SMALLER ASSOCIATED BUILDINGS, A WEATHER STATION, AND 16 AIRCRAFT REVETMENTS. AIRFIELD IS SERVED BY A RAIL SPUR FROM THE HANOI/LANG SON LINE TO THE NE END OF GRADED EARTH OVERRUN. OB -- 12 FAGOT/FRESCO.</p>			25X1A	211
<p>25X1D [REDACTED]</p>				
<p>25X1D [REDACTED]</p>				
<p>25X1D [REDACTED]</p>				
<p>OB -- 6 FAGOT/FRESCO.</p> <p>[REDACTED]</p>				
<p>OB -- 8 FAGOT/FRESCO.</p> <p>[REDACTED]</p>				
<p>OB -- NONE OBSERVED.</p>				

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25X1C

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	Target	Coordinates	WAC	Target Numbers	
				BE	NPIC
25X1D	[REDACTED]			25X1A	
25X1A	LAO CAI AIRFIELD 1 NM SSE OF LAO CAI. COMOR [REDACTED] 2,800 X 250 FT NW/SE SOD RUNWAY, SERVICEABLE. FACILITIES INCLUDE 1 SUPPORT BUILDING AND 2 SMALL SHEDS AT NW END OF RUNWAY. OB -- NONE OBSERVED.	2229N 10358E	0616	[REDACTED]	5-A
25X1D	[REDACTED]				
	BAI THUONG AIRFIELD 1.5 NM SOUTH OF HAI TRACH AND 5 NM EAST OF BAI THUONG AT UTM WH480005. APPROXIMATELY 6,600 X 200 FT N/S RUNWAY UNDER CONSTRUCTION, UNSERVICEABLE. NORTHERN HALF OF RUNWAY APPEARS TO BE NEARING FINAL STAGE OF SUB-SURFACING. PILES OF AGGREGATE OBSERVED ON SOUTHERN END OF RUNWAY. FOUR LARGE AIRCRAFT REVETMENTS ARE COMPLETE AND 1 IS UNDER CONSTRUCTION ON SW SIDE OF AIRFIELD. THREE BOMB CRATERS REMAIN ON THE SW EDGE OF RUNWAY. OB -- NONE OBSERVED.	1954N 10528E	0617		150-A
25X1D	[REDACTED] OB -- NONE OBSERVED. ACTIVITY -- 6 TRUCKS, 4 BULLDOZERS, 6 SCRAPERS (3 WITH TRACTORS), AND 5 UNIDENTIFIED VEHICLES.				
25X1D	[REDACTED] ACTIVITY -- NONE OBSERVED.				
25X1D	[REDACTED]				

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25X1C

Target	Coordinates	WAC	Target Numbers	
			BE	NPIC
MILITARY INSTALLATIONS				
25X1A QUI HAU AMMUNITION DEPOT WEST 1.5 NM NW OF QUI HAU AND 1 NM NNE OF HAI HA AT UTM WH250805. COMOR [REDACTED] DOUBLE-SECURED STORAGE AREA CONTAINS 23 DISPERSED, SEMI-REVERTED STORAGE BUILDINGS (6 INTACT AND 17 DESTROYED/DAMAGED). ADDITIONAL FACILITIES CONSIST OF 7 LARGE (3 OUTSIDE FENCED AREA) AND 2 SMALL BUILDINGS (ALL UNDER CONSTRUCTION) AND 3 SMALL SUPPORT BUILDINGS.	2037N 10514E	0616	25X1A	283
25X1D [REDACTED]				
HOA BINH ARMY BARRACKS 2.2 NM SSE OF HOA BINH. COMOR [REDACTED] SECURED BARRACKS AREA CONTAINS 11 BARRACKS, 1 ADMINISTRATION, 2 MESSHALL, 2 STORAGE, AND 6 SUPPORT BUILDINGS.	2047N 10521E	0616		317
25X1A [REDACTED]				
25X1D [REDACTED]				
XUAN MAI BKS AND HQ 338 INF BDE SSW 1 NM SW OF XUAN MAI AT UTM WJ596105. COMOR [REDACTED] INSTALLATION CONTAINS 226 BARRACKS-TYPE, 88 ADMINISTRATION-TYPE, 99 STORAGE-TYPE, 5 REVERTED AMMUNITION STORAGE, 29 MESSHALL, AND NUMEROUS MISCELLANEOUS BUILDINGS AND 3 ATHLETIC FIELDS. TRENCHING AND REVETMENTS OBSERVED THROUGHOUT AREA.	2054N 10535E	0616		261
25X1A [REDACTED]				
25X1D [REDACTED]				

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25X1C

Target	Coordinates	WAC	Target Numbers	
			BE	NPIC
25X1A YEN SON ORDNANCE AND AMMUNITION DEPOT 3.2 NM EAST OF YEN SON AT UTM WK130030. COMOR [REDACTED] IRREGULARLY SHAPED FENCED AREA CONTAINS 21 REVERTED, DISPERSED STORAGE BUILDINGS (7 DAMAGED). AN ADJACENT SUPPORT AREA CONTAINS 1 DAMAGED ADMINISTRATION-TYPE AND 5 STORAGE/ SUPPORT BUILDINGS.	2135N 10459E	0616	25X1A [REDACTED]	464
25X1D [REDACTED]				
25X1A HANOI MINISTRY OF NAT DEF ARMY & MIL ZONE HQ CENTER OF HANOI. COMOR [REDACTED] WALLED INSTALLATION CONTAINS 41 BARRACKS-TYPE, 41 ADMINISTRATION-TYPE, 48 STORAGE, 16 MAINTENANCE-TYPE, 17 QUARTERS, AND APPROXIMATELY 90 MISCELLANEOUS BUILDINGS.	2102N 10550E	0616	[REDACTED]	112-A
25X1D [REDACTED]				
25X1A QUANG KHE NAVAL BASE CUU DINH THREE SEPARATE AREAS ON THE NORTH AND SOUTH BANKS OF SONG GIANG (RIVER). COMOR [REDACTED] AREA A (ON NORTH BANK AT UTM XE570582) -- 1 T-HEAD PIER AND 3 BARRACKS, 1 ADMINISTRATION, AND 4 SUPPORT BUILDINGS HAVE BEEN DAMAGED OR DESTROYED BY AIR STRIKE. A BOAT REPAIR FACILITY WEST OF INSTALLATION CONTAINS 1 WINCH HOUSE AND A DAMAGED MARINE RAILWAY. AREA B (ON SOUTH BANK AT UTM XE574575) -- 1 L-SHAPED AND 2 SMALL FINGER PIERS AND 10 BARRACKS/STORAGE, 2 ADMINISTRATION, AND 26 SMALL SUPPORT BUILDINGS REMAIN. AREA C (JUST EAST OF AREA B AT UTM	1742N 10629E	0617	[REDACTED]	288

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25X1C

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25X1D

25X1A

25X1A

25X1A

25X1A

25X1A

25X1A

25X1A

Target	Coordinates	WAC	Target Numbers	
			BE	NPIC
<p>XE582574) -- 11 BARRACKS, 1 STORAGE-TYPE, 1 MESSHALL, AND 8 SMALL SUPPORT BUILDINGS. VESSELS -- NONE OBSERVED.</p> <p>[REDACTED]</p> <p>VINH MILITARY INSTALLATIONS</p> <p>FIVE MILITARY INSTALLATIONS IN VINH AREA.</p> <p>COMOR [REDACTED]</p> <p>AREA A (IN VINH AT UTM WH710643, VINH ARMY BKS CITADEL, [REDACTED] -- 25 BARRACKS-TYPE, 7 ADMINISTRATION, 13 STORAGE, 3 MESSHALL, AND APPROXIMATELY 30 MISCELLANEOUS BUILDINGS.</p> <p>AREA B (0.9 NM NW OF VINH CITADEL AT UTM WF700655, VINH HQ MIL REGION IV, [REDACTED] -- 27 BARRACKS, 12 ADMINISTRATION, 8 STORAGE, 2 MESSHALL, 1 MAINTENANCE, AND APPROXIMATELY 25 MISCELLANEOUS BUILDINGS. AREA HEAVILY STRUCK. APPROXIMATELY 60 BUILDINGS DAMAGED/DESTROYED.</p> <p>AREA C (1.5 NM NW OF VINH AT UTM WF696664, VINH ARMY BKS NW, [REDACTED] -- 13 BARRACKS, 2 ADMINISTRATION/SUPPORT, 2 STORAGE, AND 1 MESSHALL BUILDING AND APPROXIMATELY 10 MISCELLANEOUS SHEDS.</p> <p>AREA D (1.5 NM EAST OF VINH AT UTM WF696664, VINH ARMY SUPPLY DEPOT EAST, [REDACTED] -- 35 BUILDINGS DAMAGED.</p> <p>AREA E (2 NM ENE OF VINH AT UTM WF742658) -- BARRACKS AREA CONTAINS 10 BARRACKS, 1 LARGE PROBABLE ADMINISTRATION, 1 MESSHALL, AND 4</p>	1840N 10541E	0617		128-B

	Target	Coordinates	WAC	Target Numbers	
				BE	NPIC
25X1D	SUPPORT BUILDINGS. AREA ADJACENT ON NW CONTAINS 4 DAMAGED SUPPORT BUILDINGS. TWO LARGE BOMB CRATERS OBSERVED. OB -- 7 CARGO TRUCKS AND 3 UNIDENTIFIED VEHICLES. [REDACTED]				
25X1D	OB -- NONE OBSERVED. [REDACTED]				
25X1A	ELECTRONICS/COMMUNICATIONS THAI NGUYEN SUSPECT RADAR SITE COMOR [REDACTED] NO RADAR SITE OBSERVED IN AREA. [REDACTED]	2131N 10555E	0616		242-H
25X1A	INDUSTRY THAI NGUYEN IRON AND STEEL COMBINE 2 NM SSE OF THAI NGUYEN. COMOR [REDACTED] CONSTRUCTION CONTINUES ON ROAD- AND RAIL- SERVED IRON AND STEEL PLANT WITH LIMITED PRODUCTION CAPABILITY. COMBINE IS SEGMENTED INTO 6 INTERCONNECTED AREAS AS FOLLOW -- AREA A (ON WESTERN EDGE OF COMBINE) -- WAREHOUSE AND TRANSSHIPMENT AREA CONTAINS 20 LARGE M-ROOF WAREHOUSES, NUMEROUS SMALLER BUILDINGS, AND OPEN STORAGE. AREA B (IN SW SECTION OF COMBINE) -- ORE CONCENTRATION AREA CONTAINS 1 LARGE MONITOR- ROOF FURNACE BUILDING WITH 2 STACKS AND 6 MEDIUM ORE PREPARATION BUILDINGS CONNECTED BY CONVEYORS, APPROXIMATELY 5 SMALL BUILDINGS,	2134N 10552E	0616	25X1A [REDACTED]	242-A



Target	Coordinates	WAC	Target Numbers	
			BE	NPIC
<p>AND OPEN PROBABLE ORE STORAGE. A CAR AND LOCOMOTIVE REPAIR FACILITY IMMEDIATELY SOUTH ON SOUTH EDGE OF COMBINE CONTAINS 3 LARGE BUILDINGS (2 MONITOR-ROOF).</p> <p>AREA C (IN SOUTH CENTRAL SECTION OF COMBINE) -- FORGE, FOUNDRY, AND MACHINE SHOP AREA CONTAINS 9 BUILDINGS (3 MONITOR-ROOF). AN ADMINISTRATION AREA CONTAINING 3 LARGE MULTISTORY, MULTIWING BUILDINGS AND 10 OTHER BUILDINGS IS IMMEDIATELY SOUTH ON SOUTH EDGE OF COMBINE. A LARGE PROBABLE SUPPORT AREA IN EARLY STAGE OF CONSTRUCTION IS IMMEDIATELY NORTH.</p> <p>AREA D (ON EAST EDGE OF COMBINE) -- ROLLING MILL AREA IN EARLY STAGE OF DEVELOPMENT CONTAINS 1 LARGE ROLLING MILL UNDER CONSTRUCTION AND APPROXIMATELY 15 OTHER BUILDINGS.</p> <p>AREA E (ON NE EDGE OF COMBINE) -- BLAST FURNACE/OPEN HEARTH AREA CONTAINS 1 LARGE OPEN HEARTH FURNACE BUILDING WITH 2 SMOKE STACKS, 1 LARGE STEAMPLANT, 1 LARGE STRIPPING AND INGOT STORAGE BUILDING, 3 BLAST FURNACES, AND APPROXIMATELY 20 OTHER BUILDINGS.</p> <p>AREA F (IN NORTH CENTRAL SECTION OF COMBINE) -- COAL AND LIMESTONE PREPARATION AREA CONTAINS A LARGE OPEN COAL STORAGE AREA, COKING OVENS, A COKE BYPRODUCTS PLANT, A COAL PREPARATION FACILITY INCLUDING 1 LARGE BUILDING WITH AN ADJACENT SMOKESTACK AND APPROXIMATELY 10 SMALL BUILDINGS, AND A LIMESTONE PREPARATION AREA WITH 1 LARGE BUILDING. A CONSTRUCTION SUPPORT AREA CONTAINING 9 BUILDINGS (7 M-ROOF), NUMEROUS</p>				

25X1C

Target	Coordinates	WAC	Target Numbers	
			BE	NPIC
<p>SMALL BUILDINGS, AN OPEN STORAGE AREA, AND A WATER SETTLING POND IS IMMEDIATELY NORTH OF THE FACILITY.</p> <p>25X1D</p> <p>BASIC SERVICES</p> <p>THANH HOA RR AND HWY BRIDGE OVER SONG MA 2.5 NM NE OF THANH HOA AT UTM WG836936. TWO-SPAN, THROUGH, STEEL-TRUSS RAILROAD AND HIGHWAY BRIDGE APPROACHES HAVE BEEN REPAIRED AND BRIDGE IS PROBABLY CAPABLE OF SUSTAINING VEHICLES ON RAIL PORTION OF BRIDGE. THE HIGHWAY PORTION HAS BEEN REMOVED.</p> <p>VEHICULAR PONTON BRIDGE SEGMENTS OBSERVED ON EITHER SIDE OF THE SONG MA (RIVER), APPROXIMATELY 1,000 FT SOUTH OF THE RAILROAD AND HIGHWAY BRIDGE. RAILROAD TRACK HAS BEEN LAID ON THE APPROACHES TO THE BRIDGE.</p> <p>25X1D</p> <p>PORTS AND HARBORS</p> <p>HANGI PORT FACILITIES</p> <p>WEST BANK OF THE RED RIVER AT UTM WJ909228. COMOR</p> <p>FACILITIES CONSIST OF 1 OFFSHORE WHARF WITH OVERHEAD CRANE AND NUMEROUS SMALL COALING PIERS NEARBY. NO MAJOR TRANSSHIPMENT ACTIVITY OBSERVED.</p> <p>VESSELS -- NONE OBSERVED.</p> <p>25X1D</p>	<p>1950N 10548E</p> <p>2101N 10551E</p>	<p>0617</p> <p>0616</p>	<p>25X1A</p>	<p>126-D</p> <p>112-S</p>

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25X1C

Target	Coordinates	WAC	Target Numbers	
			BE	NPIC
<p>25X1A BEN THUY PORT FACILITIES 2.2 NM SSE OF VINH ON WEST BANK OF SONG CA (RIVER) AT UTM WF750620. COMOR [REDACTED] FACILITIES INCLUDE 4 STORAGE AREAS WITH APPROXIMATELY 25 STORAGE BUILDINGS, A LARGE SAWMILL, AN OFFSHORE WHARF, AND 1 WAREHOUSE, ALL PARTIALLY DESTROYED BY AIR STRIKE. THE THERMAL POWERPLANT AND RECONSTRUCTED RAIL SPUR HAVE BEEN SUBJECTED TO AIR STRIKE AND ARE UNSERVICEABLE. VESSELS -- 1 CAPSIZED COASTAL FREIGHTER AT OFFSHORE WHARF.</p> <p>25X1D [REDACTED]</p> <p>STORAGE</p> <p>25X1A HANOI PETROLEUM PRODUCTS STORAGE BAC MAI 0.7 NM NE OF BAC MAI AIRFIELD AT UTM WJ878218. COMOR [REDACTED] SECURED, ABANDONED AREA CONTAINS 1 SMALL AND 3 MEDIUM POL STORAGE TANKS.</p> <p>25X1D [REDACTED]</p> <p>URBAN COMPLEXES</p> <p>25X1A HANOI COMPLEX COMOR [REDACTED] ROAD-, RAIL-, AND RIVER-SERVED INDUSTRIAL COMPLEX CONTAINS NUMEROUS LIGHT INDUSTRIES AND LIMITED PORT FACILITIES (HANOI PORT FACILITIES, [REDACTED])</p>	<p>1839N 10542E</p> <p>2059N 10550E</p> <p>2101N 10551E</p>	<p>0617</p> <p>0616</p> <p>0616</p>	<p>25X1A [REDACTED]</p>	<p>128-D</p> <p>112-T</p> <p>112</p>

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	Target	Coordinates	WAC	Target Numbers	
				BE	NPIC
25X1D	SEVERAL MILITARY INSTALLATIONS WITH NUMEROUS BARRACKS AND SUPPORT FACILITIES OBSERVED. [REDACTED]	2135N 10551E	0616	25X1A	242
25X1D					
25X1D					
25X1D					
25X1A	THAI NGUYEN COMPLEX COMOR [REDACTED]	2231N 10359E	0616	[REDACTED]	5
25X1D	COMPLEX APPROXIMATELY 1 SQ MI. IN AREA, ON THE KAU RIVER, CONTAINS NO MAJOR OR MINOR INDUSTRIES. LIGHT BOMB DAMAGE OBSERVED AT SOUTH END OF ROAD BRIDGE OVER SONG CAU.				
25X1D	[REDACTED]				
25X1D	[REDACTED]				
25X1A	LAO CAI COMPLEX COMOR [REDACTED]	2231N 10359E	0616	[REDACTED]	5
25X1D	COMPLEX CONTAINS LIGHT INDUSTRY, A MILITARY BARRACKS AND STORAGE AREA, AND A CLASSIFICATION YARD 1,800 FT LONG AND 8 TRACKS WIDE. ROUTE 4 HEADING SE AND UNNUMBERED ROUTE HEADING NE SHOW ROAD IMPROVEMENT ACTIVITY.				
25X1D	[REDACTED]				
25X1D	[REDACTED]				

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## APPENDIX

### COLUMN HEADINGS

City, Installation--This column contains the name of the city or town nearest the installation, followed by the name of the installation. If the name of the installation is not known, it is titled according to its function. Where appropriate, the city and installation names are followed by a capsule description.

Coordinates--Coordinates are referenced to the SW corner of the minute square. When the subject installation covers a wide area, coordinates are given for the approximate center of the installation.

WAC--This column provides the World Aeronautical Chart number for that area in which the subject installation is situated.

Installation Numbers--This column is divided into two subcolumns. The first subcolumn lists, when known, the BE installation number assigned to the installation. The second subcolumn lists the installation number assigned by NPIC. Installation numbers, when used to reference an item, should be prefixed by the appropriate WAC number, since installation numbers are repeated from WAC to WAC. For example, there is an NPIC target number 0468-15-A and an NPIC target number 0467-15-A. In each instance, the NPIC installation number is 15-A, but the installations appear on different WAC charts.

### COMOR TARGET NUMBERS

COMOR target numbers, when available, are listed directly above the photo reference data.

### PHOTO REFERENCE DATA

The photo reference data indicates the frame(s) on which the installation appears.

### CONDITIONS AFFECTING PHOTOGRAPHY

Following the photo reference data, symbols indicate conditions which affect the appearance of the installation on the photography. The symbols are: C (clear), SC (scattered cloud cover), H (haze), CS (cloud shadow), HC (heavy cloud cover), SD (semidarkness), S (snow), O (obliquity), GC (ground cover), CF (camouflage), and GR (ground resolution).

Interpretability of the photography is categorized as G (good), F (fair), or P (poor).

Target coverage is denoted by the symbols T (total) or PT (partial).

The mode of coverage is indicated by ST (stereo), NS (nonstereo), or PS (partial stereo).

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